New Generation Modern School

ICT

Q.BANK for

GRADE (5)- FIRST TERM

Name: .....

Class: .....

Teacher/Somia Mostafa

THEME 1

LESSON 1 EXPLORER IN ACTION

Summary

Dr.Fredrik Hibert

*He is an archaeologist and explorer

*working at National Geographic Society

*He used many technological tools that help him in his work such as:

***Word** :To write reports and documents

***Excel:** To prepare and express graphs

PowerPoint : To present search results

***E-mail:** To communicate formally

***Whatsapp & Zoom platform** to make virtu meetings when he cannot meet his students

Teacher/Somia Mostafa

LESSON 2 Computer accessories

Potential computer problems and solutions

Problem: Trouble processing large files, like a big PowerPoint presentation
Potential reason and solution: Not enough graphics storage – shut down some programs

Problem: A poor video-conference connection
Potential reason and solution: Slow wireless internet connection – try an ethernet connection

Problem: Not able to store files
Potential reason and solution: Not enough space – move old files to an external drive

Problem: Home internet connection not working
Potential reason and solution: connection interrupted – use ethernet or contact ISP

Units of measurement:

bit: the smallest unit of data

byte: 1 byte = 8 bits = 1 character; the word 'cat' has three letters and would need three bytes.

Kilobytes: 1,024 (B)

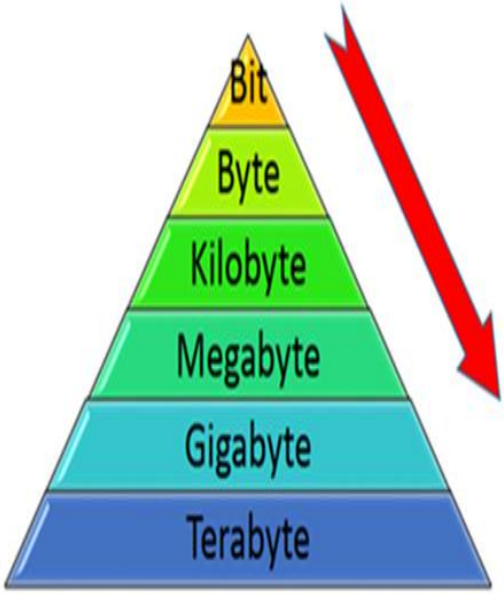
Gigabyte (Gb): 1,024 (MB)

Megabyte (Mb): 1,024 (KB)

Terabyte: 1,024 (GB)

Mbps: megabits per second; measures the speed of a network or internet connection (the faster the speed, the better)

GHz (GigaHertz): measures the number of cycles your CPU carries out per second; the higher the number, the faster the speed.



Questions on lesson(1&2):

Put (√)or (X):

1- D.Hebert uses Word to write reports (√)

2-flash memory Is one of computer accessories (√)

3- D.Hebert uses power point to communicate virtually (x)

4-Ithernet cable connect the router to computer (√)

Choose:

1-D.Hebert is an…….(archaeologist-baker-artist)

2-From units of measurement ……..(router-byte-Hdmi)

3-(Hdmi cable-router-mouse) is used to transmit videos and audios between computers

4- One byte= …….(4-9-8) Bit

5-sometimes you cannot store files because there is……

(not enough space-internet is wake-not enough money)

Complete:

(GHZ-Bit-ithernet cable-virtual meetings-flash memory)

1-The smallest unit of measurement is … Bit …

2-…… flash memory ….. is used to transmit files between computers

3-Zoom and whatsapp are used to create …… virtual meetings …….

4-… GHZ … is used to measure the speed of CPU

5-When the home internet not working you should use ithernet cable

Summary

Computer networks:

It is a connection between two or more computers to transfer data and information

Networks types:

LAN

(Local Area Network) it could be at home,school or in a hospital between computers in a limited area

WAN

(Wide Area Network)It is a set of local networks in a large distance between cities and countries like: internet

Intranet

It is a network between a group of people as business,company schools so it is considered a closed network

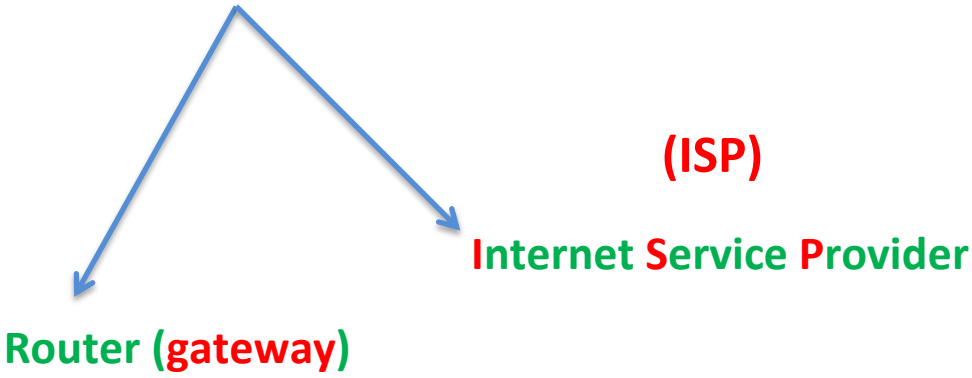
The world wide web(WWW.)

It's a part of internet,consists of web pages and sites that can be navigated .like the Egyptian knowledge bank website (EKB)

Internet

It is a network connects computers and people all over the world

**To connect the computer to the internet you need:



Open network

It is open and accessible to all. for example the internet

Closed network

It is a part of open network but limited to a certain part such as school lab

LESSON 4 Digital communication tools

What is the Internet of Things?

The IoT consists of devices linked to the internet via Wi-Fi. These devices can be remotely controlled. Whether you're in the same room or in another city!

Examples:

- Home appliances, such as a digital refrigerator or a washing machine that can be turned on/off using specific apps. Bluetooth speakers could be remotely controlled as well.

What is Bluetooth?

Bluetooth is a networking technology that connects wireless mobile devices over a short range to form a network to transfer data between different devices.

How do screen readers help people of determination?

They help them with a lot of what they need they do, including writing papers and accessing documents on their laptop.

How does braille help people of determination?

It makes reading much easier for visually impaired people because they can read using their fingers.

*Questions on lesson (3&4):

Put (√)or (X):

1-Bluetooth is a technology connects wireless mobile over long range (x)

2-the Egyptian Knowledge bank contains a lot of interesting information(√

3-Braille makes reading easier for visually impaired people (√)

4- The world wide web is a part of internet (√)

5-Lan is wide area network (x)

Choose:

1-The internet of things such as (mouse-keyboard- bluetooth speakers)

2- It is a network between a group of people as schools

(internet-WWW-intranet)

3-(WWW-WWR-WWA) is the shortcut of world wide web

Complete:

(Closed network-digital privacy- gateway and ISP- Open network- internet of things)

1- internet of things consists of devices linked to the internet via WI-FI

2-Before going online shopping we should think about digital privacy

3- Closed network is a part of open network such as school lab

4- Open network It is open and accessible to all

5-To connect the computer to the internet you need gateway and ISP

LESSON 5 Internet connection problems and solutions

Common computer problems and possible solutions:

Problem: Computer slows down when opening an app

Possible solutions: Shut down and restart; check for software updates; delete unwanted apps.

Problem: Browser running slow

Possible solutions: Check Wi-Fi signal; make sure to update the apps on your device.

Problem: No internet connection

Possible solutions: Use the software to troubleshoot your Wi-Fi connection; check that the router is connected; restart your router; try a new ethernet cable; contact the customer service of your ISP for help.

Problem: Slow to download

Possible solutions: Restart computer and router; check internet speed

Learn by doing LESSON 6 Digital file management

***HOW CAN YOU ORGANIZE AND MANAGE FILES ON YOUR DEVICE?**

1-Create a new folder

2-Add subfolders into the main folder

3-put appropriate title to each folder

4-put files,photos and videos in the correct folder

*THE STEPS TO CREATE A NEW FOLDER:

1-Right click on a free space

2- From shortcut menu choose "New"

3-choose appropriate title to it

4-Press "enter key"

*Questions on lesson (5&6)

Choose:

1-When you notice that the download is slow you should……

(restart computer and router-delete some files-use exchange the mouse)

2-to create a new folder choose……(new-close-cut)

3-If you find the computer is working slowly when opening an app you should

(shut down and restart-change the mic-connect the electricity)

4-To create a folder first press (space-enter-right click)then select new

Put (√)or (X):

1-You must not choose a suitable name to each folder (x)

2-When you notice there is no internet connection check that the router is connected (√)

3-After writing the folder name press space key (x)

4-If the browser running slow make sure to update the apps (√)

LESSON 7 Information search strategies

TO SEARCH FOR INFORMATION YOU MUST:

1-Plan your research

2-Analysis the information you have got

3-Make sure this information is correct

4- Evaluate and organize information

FOR A GOOD SEARCH FOLLOW THIS STEPS:

1-Decide the search topic

2-Break the topic into smaller subtopics

3-Determine what do you know

about the search topic and what you miss

4-Give each of your colleagues information to look for

5-Its Good for two colleagues to search

for the same information and share results

6-Detect key words

7-Do not write complete sentences

8-Share your results via a presentation

LESSON 8 Sharing information

***To share the information choose the suitable type of network:**

Internet

*Open network

*Share information to all

*But this information at in risk so internet is less secure

Interanet

*Closed network

*Share information like personal data to

a certain people

*so interanet is more secure

Also you can create a graph or a chart to share information via spread sheets program such as Excel:

1-Sorting information in alphabetical order:

1-Go to tool bar and open "data" tab

2-Then press "sort"

How to create a simple formula:

1-Click on the cell you want to create a simple formula in

2-Select the cells you want to set a formula 3- then write"="

4-Write in each cell (+,=,-,/,*…….)sign as you want

5-Press enter to show the result

***Questions on lesson (7&8)**

Choose:

1-To share information create a…… (graph –meal -house)via excel program

2-Choose …….. (copy-delete-sort) to arrange information alphabetically

3- To create a simple formula write……. (+ or ? or =) in the cell

Put (√)or (X):

1-For a good search first detect the search topic (√)

2-Use word program to create a graph (x)

3- For a good search Break the topic into smaller subtopics (√)

4-The internet is more secure than the intranet (x)

Who am i ?

1-I am a program help you to share information in graph [Excel program]

2-I am a tab is used to sort data [data tab]

3-I am a network you can use me to share data all over the world [inernet]